



Installation and Operation Manual

PHOENIX

Gas-Fired Stone Hearth Oven
Commercial Dual Burner Model



PHOENIX 4343

WS-PX-4343-RFG-LR-(NG, LP)

PHOENIX 4355

WS-PX-4355-RFG-LR-(NG, LP)



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TABLE OF CONTENTS

TABLE OF CONTENTS.	2
PHOENIX DUAL BURNER OVEN	3
CAUTIONS AND WARNINGS	4
PX-4343-LR SPECIFICATIONS	6
PX-4355-LR SPECIFICATIONS	7
PLACING THE OVEN	8
INSTALLATION CLEARANCES	9
OVEN VENTING	10
LIFTING THE OVEN	11
EXPLODED PARTS DIAGRAM	13
ASSEMBLY	14
UTILITY CONNECTIONS	20
STORAGE BOX INSTALLATION	22
CONTROLLER	23
INITIAL START-UP	24
OVEN OPERATION	25
DAILY MAINTENANCE	26
TROUBLESHOOTING GUIDE	27
120 VAC ELECTRICAL DIAGRAM	28
240 VAC ELECTRICAL DIAGRAM	29
INTERLOCK DIAGRAM	30
LIMITED WARRANTY	31



INSTALLATION AND OPERATION MANUAL FOR THE WOOD STONE DUAL BURNER PHOENIX

**NATURAL GAS OR PROPANE FUELED DUAL BURNER STONE HEARTH OVEN
WS-PX-4343-RFG-LR-(NG OR LP) AND WS-PX-4355-RFG-LR-(NG OR LP)**

ADDITIONAL COPIES AVAILABLE UPON REQUEST



Shown: WS-PX-4343-RFG-LR



**INSTALLATION AND OPERATION MANUAL FOR THE WOOD STONE PHOENIX
NATURAL GAS (NG) OR PROPANE (LP) FUELED DUAL BURNER STONE HEARTH OVEN
WS-PX-4343-RFG-LR-(NG OR LP), WS-PX-4355-RFG-LR-(NG OR LP)**

ADDITIONAL COPIES AVAILABLE UPON REQUEST

RETAIN THIS MANUAL FOR FUTURE REFERENCE

Additional copies of this manual are available at woodstone-corp.com.
For prompt responses to service/maintenance questions, call your local distributor.

READ ALL INSTRUCTIONS BEFORE INSTALLING AND USING THIS APPLIANCE

Please read this entire manual before you install the oven. Failure to follow instructions may result in property damage, bodily injury or even death. Contact your local building or fire officials about restrictions and installation inspection in your area.

WARNING: Improper installation, adjustment, alteration, service or maintenance can result in property damage, injury or death. Read the installation, operation and maintenance instructions thoroughly before installing or servicing this equipment.

AVERTISSEMENT: L'installation, le réglage, la modification, la réparation ou l'entretien incorrect de cet appareil peut causer des dommages matériels, de blessures ou la mort. Lire attentivement les instructions d'installation, de fonctionnement et d'entretien avant de procéder à son installation ou entretien.

IMPORTANT: Consult your local gas supplier for a statement outlining a procedure to be followed in the event you smell gas. Post the statement in a prominent location.

When this oven is not properly installed, a fire may result. To reduce the risk of fire, follow the installation instructions. It is recommended that this oven be installed, maintained and serviced by authorized professionals.



A MAJOR CAUSE OF OVEN RELATED FIRES IS A FAILURE TO MAINTAIN REQUIRED CLEARANCES TO COMBUSTIBLE MATERIAL. IT IS OF UTMOST IMPORTANCE THAT THIS OVEN BE INSTALLED ONLY IN ACCORDANCE WITH THESE INSTRUCTIONS.

FOR YOUR SAFETY: Do not store or use gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance.

POUR VOTRE SÉCURITÉ: Ne pas entreposer ni utiliser d'essence ou d'autres vapeurs de liquides inflammables ou des liquides dans les environs de ce ou de tout autre appareil.

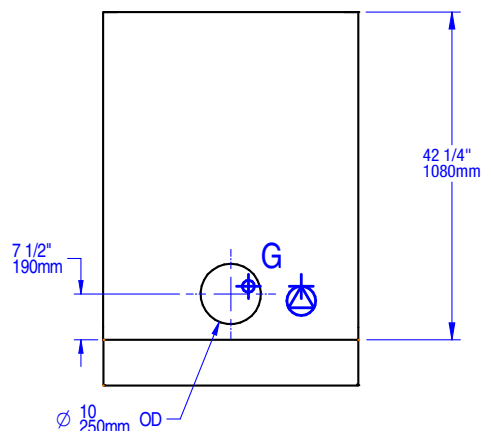


This appliance is for professional use by qualified personnel. This appliance must be installed by qualified persons in accordance with the regulations in force. This appliance must be installed with sufficient ventilation to prevent the occurrence of unacceptable concentrations of substances harmful to health in the room in which it is installed. This appliance needs an unobstructed flow of fresh air for satisfactory combustion and must be installed in a suitably ventilated room in accordance with current regulations. This appliance should be serviced by qualified personnel at least every 12 months, or sooner if heavy use is expected.

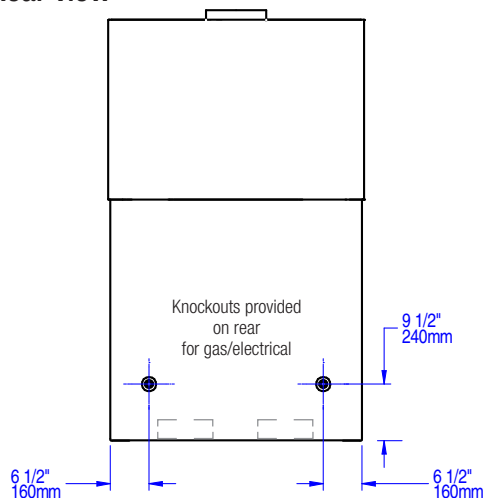
SAVE THE INSTRUCTIONS



Plan view



Rear view

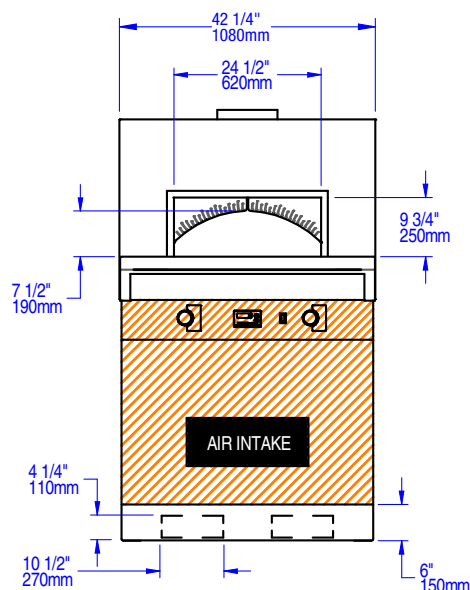


■ Air intake: Do not facade or cover over
▨ Must be left removable for service

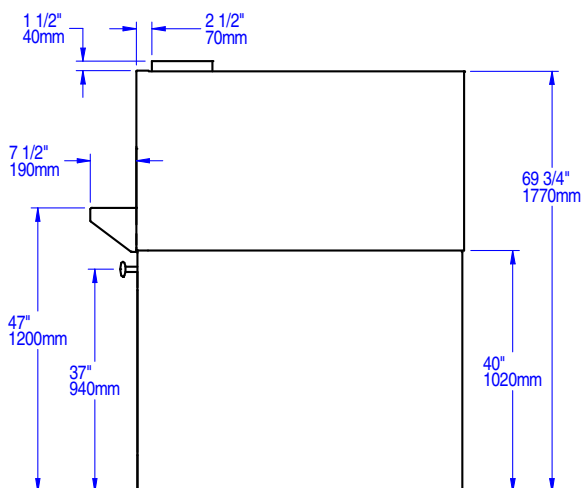
**Actual weight: 748 kg
1650 lbs.**

**Ship weight: 953 kg
2100 lbs.**

Front view



Side view



UTILITIES SPECIFICATIONS

Gas: 19mm (3/4") FNPT gas inlet ♂G
105,000 BTU/hr Natural Gas (NG)
OR
105,000 BTU/hr Propane (LP)

Maximum gas inlet pressure
1/2 psi (14 inches W.C.)

Electrical

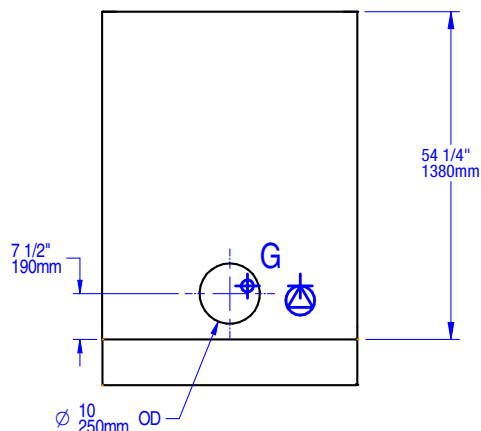
120 VAC, 2 A, 60 Hz ⚡
Optional: 240 VAC, 1 A, 60 Hz
All utility connections made on the back of the oven control box. Remove front or rear panel for access. Use utility knockouts (provided) to route gas and electrical supplies. Refer to data plate when installing.

Venting

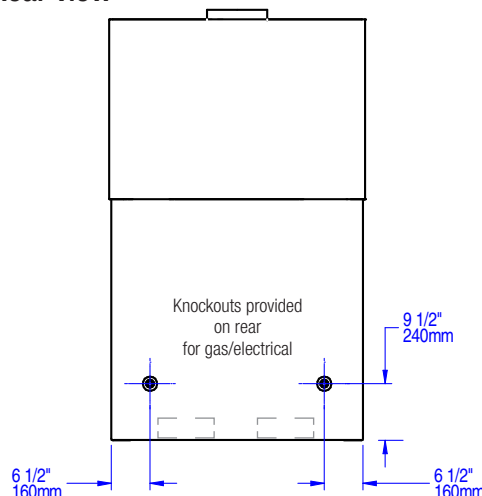
The Phoenix must be vented using an approved chimney, or an exhaust hood constructed and installed in accordance with all relevant local and national codes.



Plan view



Rear view



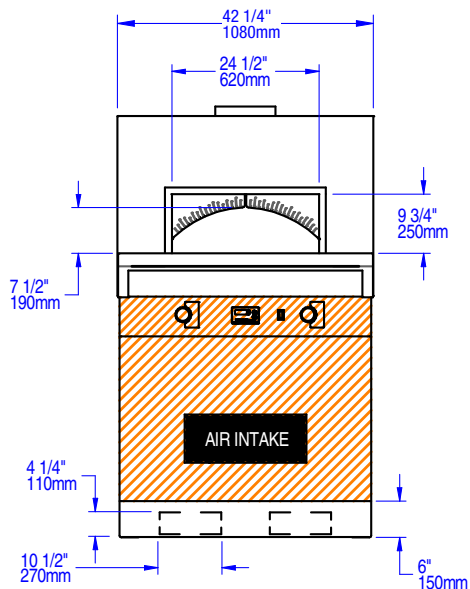
Air intake: Do not facade or cover over

Must be left removable for service

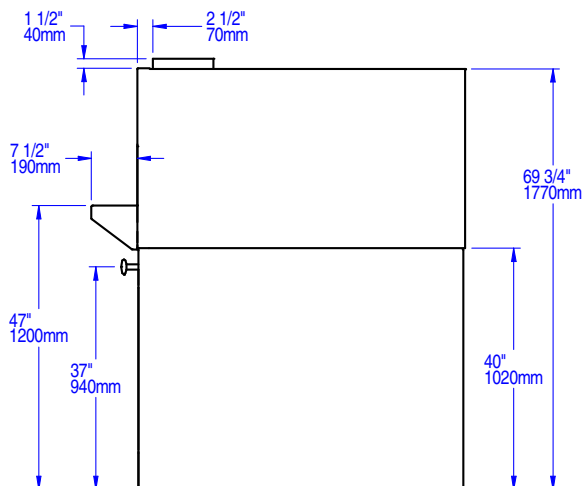
**Actual weight: 998 kg
2200 lbs.**

**Ship weight: 1134 kg
2500 lbs.**

Front view



Side view



UTILITIES SPECIFICATIONS

Gas: 19mm (3/4") FNPT gas inlet +G
151,000 BTU/hr Natural Gas (NG)
OR
151,000 BTU/hr Propane (LP)

Maximum gas inlet pressure
1/2 psi (14 inches W.C.)

Electrical

120 VAC, 2 A, 60 Hz
Optional: 240 VAC, 1 A, 60 Hz
All utility connections made on the back of the oven control box. Remove front or rear panel for access. Use utility knockouts (provided) to route gas and electrical supplies. Refer to data plate when installing.

Venting

The Phoenix must be vented using an approved chimney, or an exhaust hood constructed and installed in accordance with all relevant local and national codes.



If you received your Phoenix oven disassembled, go to the ASSEMBLY section.

PLACING THE OVEN

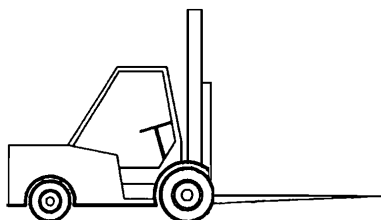
The oven must be installed on a flat level surface. The weight of the oven is carried by the full perimeter of the oven stand. If it is necessary to shim the oven for leveling purposes, it is critical that the shim material be metal, and that the shims are installed in such a way that the full perimeter of the stand is solidly supported. Any gaps created by shimming between the oven and the floor must be sealed. **Failure to solidly support the full perimeter of the oven stand can result in costly damage to the oven and will void the warranty.**

The floor design and construction must be adequate to handle the weight of the oven.

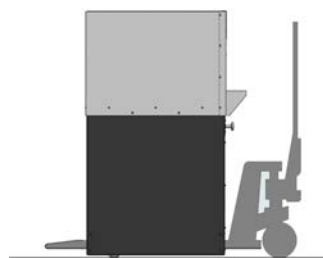
Please see woodstone-corp.com/installation_footprints.htm for floor loading information.

FORKLIFT REQUIREMENTS

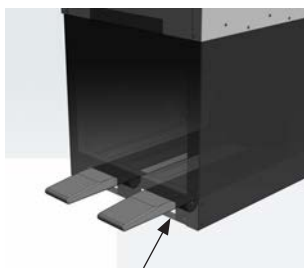
The oven is very top-heavy. **IF THE OVEN TIPS IT CAN CAUSE SEVERE INJURY OR DEATH! NEVER ATTEMPT TO USE A HAND TRUCK TO MOVE THE OVEN.** The oven should only be moved using a pallet jack on a **LEVEL FLOOR**. If the oven must be moved over an inclined surface, a forklift or other suitable means should be employed. If the installer does not have the equipment or experience required to move the oven safely, we recommend you secure the services of a qualified rigging company.



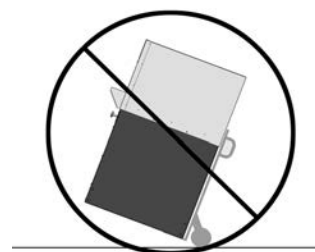
Model	Shipping Weight	Required Forklift Capacity	Minimum Fork Length
BL-4343/4836	953 kg (2,100 lbs)	1450 kg (3,200 lbs)	1.5 m (5')
BL-4355	1134 kg (2,500 lbs)	1600 kg (3,500 lbs)	1.5 m (5')



The oven should only be moved using a pallet jack on a **LEVEL FLOOR**. If the oven must be moved over an inclined surface, a forklift or other suitable means should be employed.



Make sure the pallet jack wheels do not contact the underside of the fork pocket when lifting to avoid damaging the stand.



Never attempt to use a hand truck to move the oven.



WARNING: Do not pack required air spaces (clearance) with insulation or other material.
EN AVERTISSANT - n'emballez pas les espaces aériens requis avec l'isolation ou tout autre matériel.

When non-combustible building materials contact the body of the oven, the clearances to combustibles are transferred to those non-combustibles.



WARNING: Installation and servicing of this product could expose you to glasswool/ceramic fibers as well as Calcium Silicate dust. **ALWAYS WEAR RESPIRATORY AND EYE PROTECTION WHEN INSTALLING OR SERVICING THIS APPLIANCE.** Please read this entire manual before you install the oven. Failure to follow instructions may result in property damage, bodily injury or even death. Contact your local building or fire officials about restrictions and installation inspection in your area.

CLEARANCES

1. The Wood Stone Phoenix oven must have a **minimum 25 mm (1") clearance to combustibles from all sides, 152 mm (6") clearance to combustibles from the top and 152 mm (6") from the flue collar.** If building a facade that will contact the oven, use completely non-combustible materials. Any facade wall built 152 mm (6") to either side of the doorway and above must be of non-combustible construction. Please note that standard Drywall (or Sheetrock) is considered a limited combustible. Any walls perpendicular to the front of the oven in the area 762 mm (30") to either side of the doorway and 914 mm (36") in front of the oven should have a non-combustible surface.
2. The oven must be installed on a non-combustible floor surface. The non-combustible floor surface must extend 914 mm (36") in front of and 914 mm (30") to either side of the oven doorway.

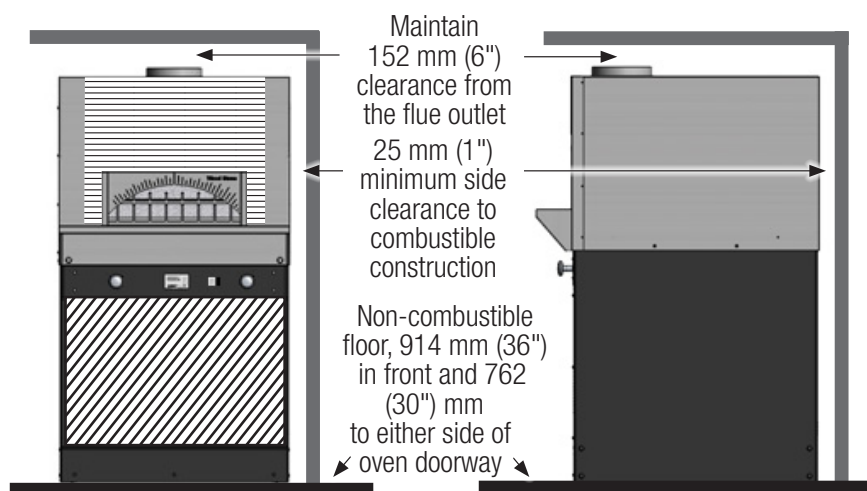
NOTICE: For stucco-ready appliances (model numbers ending in "-S"), the same clearances as described above apply. Non-combustible stucco mix must be used and applied to a minimum thickness of 25mm (1").



Ruled area (152 mm (6") to either side of doorway and above) represents space where facade materials must be non-combustible.



Hatched area must be left accessible and unobstructed after installation for air intake and routine service of the oven burner.





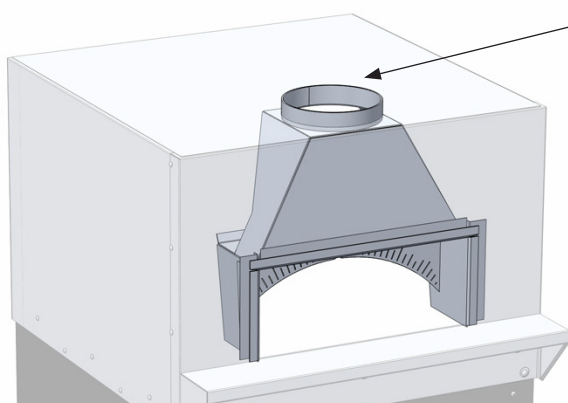
All of the combustion products and cooking vapors from the WS-PX-4343-RFG and WS-PX-4355-RFG pass through the 10-inch diameter flue collar located on top of the oven at the front. The oven can be connected to a power-ventilated, grease-rated chimney, or placed under a Listed Type 1 exhaust hood. Installation of the exhaust hood should be in accordance with the Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations, NFPA 96.

THIS OVEN IS NOT INTENDED TO BURN SOLID FUEL. DO NOT BURN ANY TYPE OF SOLID FUEL IN THIS OVEN.

The following are the manufacturer's recommendations for venting Wood Stone Phoenix model ovens. It is never appropriate to use "B vent" in any part of an exhaust system connected to a Wood Stone oven. All duct material must be manufactured to the specifications of a grease duct. The venting system should be cleaned and inspected at least every 3 months.

THERE ARE TWO VENTING OPTIONS:

1. A grease rated duct connected directly to the oven flue collar and provided with a power ventilator suitable for restaurant appliance exhaust and rated for operation at a minimum of 149 °C (300 °F), 232 °C (450 °F) for units burning solid fuel. Use a stack or curb mounted fan. Wood Stone does not recommend the use of an in-line fan. A static pressure of 0.25 mbar (-0.1 inches) water column is necessary at the oven flue collar to ensure proper flue temperatures at the fan. The airflow required to attain this static pressure will depend on the configuration of your particular installation but will be approximately 400 CFM. The exhaust fan must be turned on any time the oven is running. See instructions for optional interlocking of the oven to the fan at the end of this manual.
2. Wood Stone offers eyebrow-type hoods designed specifically for Wood Stone ovens by Gaylord Industries.



Flue collar

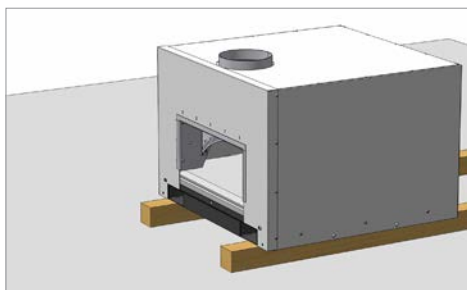
Note: Flue gas temperatures at the oven flow can reach 260 °C (500 °F)

Wood Stone ovens should be vented in accordance with NFPA 96 and/or all pertinent national, regional and local codes concerning such appliances; check venting plans with the authority having jurisdiction before proceeding with installation.

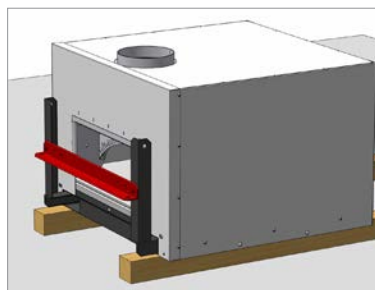


MOVING A DISASSEMBLED BISTRO OVEN THROUGH A NARROW DOOR OR PASSAGEWAY USING THE OPTIONAL LIFTING SYSTEM

An optional Lifting System is available from Wood Stone to facilitate tipping the oven body onto its back or side (as shown below). When turned on its side, the upper oven portion of Bistro or Phoenix models 4343, 4355 and 4836 will be approximately 32 inches wide. This will allow for easier access through small passages. Note: The 3030 is 30" wide without tilting.

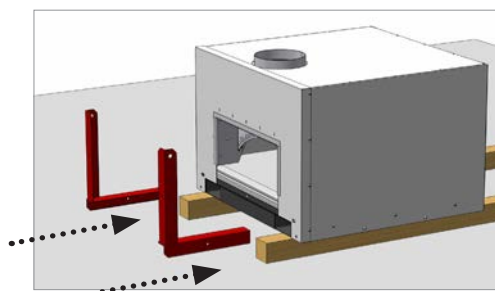


1. Use a forklift or other suitable lifting means to set the oven body onto 4x4" blocks oriented as shown. Refer to DISASSEMBLY section of manual for disassembly instructions.

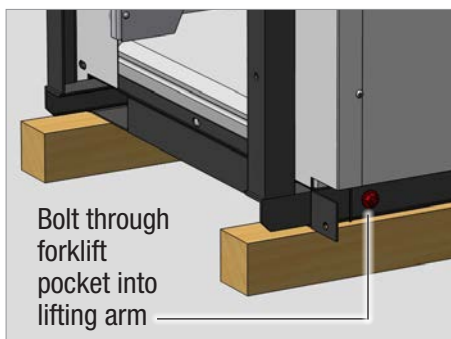
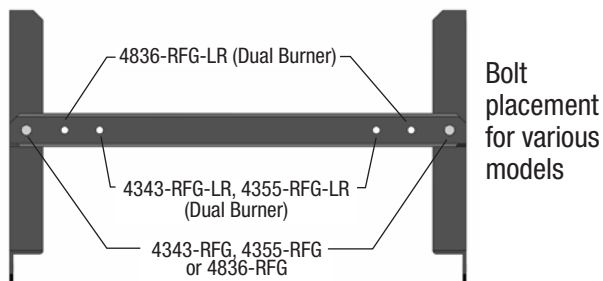


4. Attach the Crosspiece using the hardware provided. See drawing below for placement of bolts on various models.

Tighten all Pickeye and Crosspiece bolts.

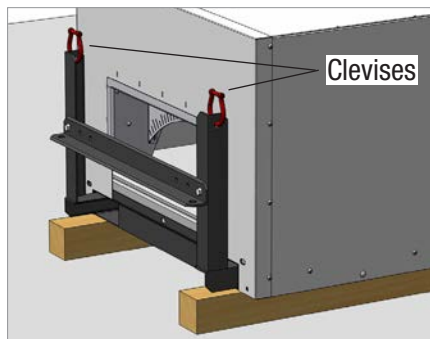


2. Insert the left & right Pickeye Inserts of the Lifting System into the forklift pockets from the oven front.

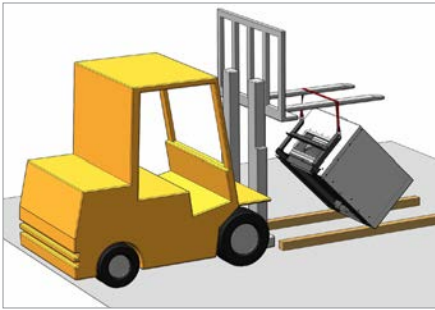


Oven cut-away view showing right Pickeye Insert of Lifting System in forklift pocket

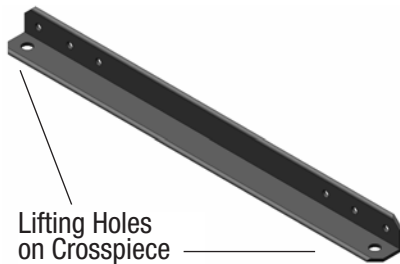
3. Loosely bolt each Pickeye Insert to the forklift pocket as shown in the cut-away view to above.



5. Install a clevis in the Top Hole of each Pickeye Insert of the Lifting System.



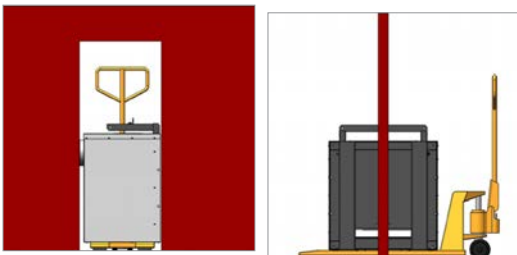
6. Attach strap to the clevises at the top of each Pickeye Insert. Using an appropriate hoist or lift, tilt the oven on its back, onto 4x4" blocks.



7. Change the position of the clevises to the Lifting Holes on the Crosspiece and attach straps.



8. Lift the oven straight up and position pallet jack under the oven.
Lower the oven, on its back, onto the pallet jack.



9. The oven can now be moved through a narrow doorway or passageway.

DANGER: Never attempt to move the oven in this manner on any type of incline or sloped floor.



10. Once the oven is on the other side of the passageway, attach strap to the clevises at the Lifting Holes on the Crosspiece and, with a gantry crane, lift the oven straight up. Remove pallet jack. Lower the oven onto 4x4" blocks.



11. Move strap to the clevises at the top of the Pickeye Inserts and tilt the oven down onto the 4x4" blocks positioned as shown. Remove the Lifting System from the oven.



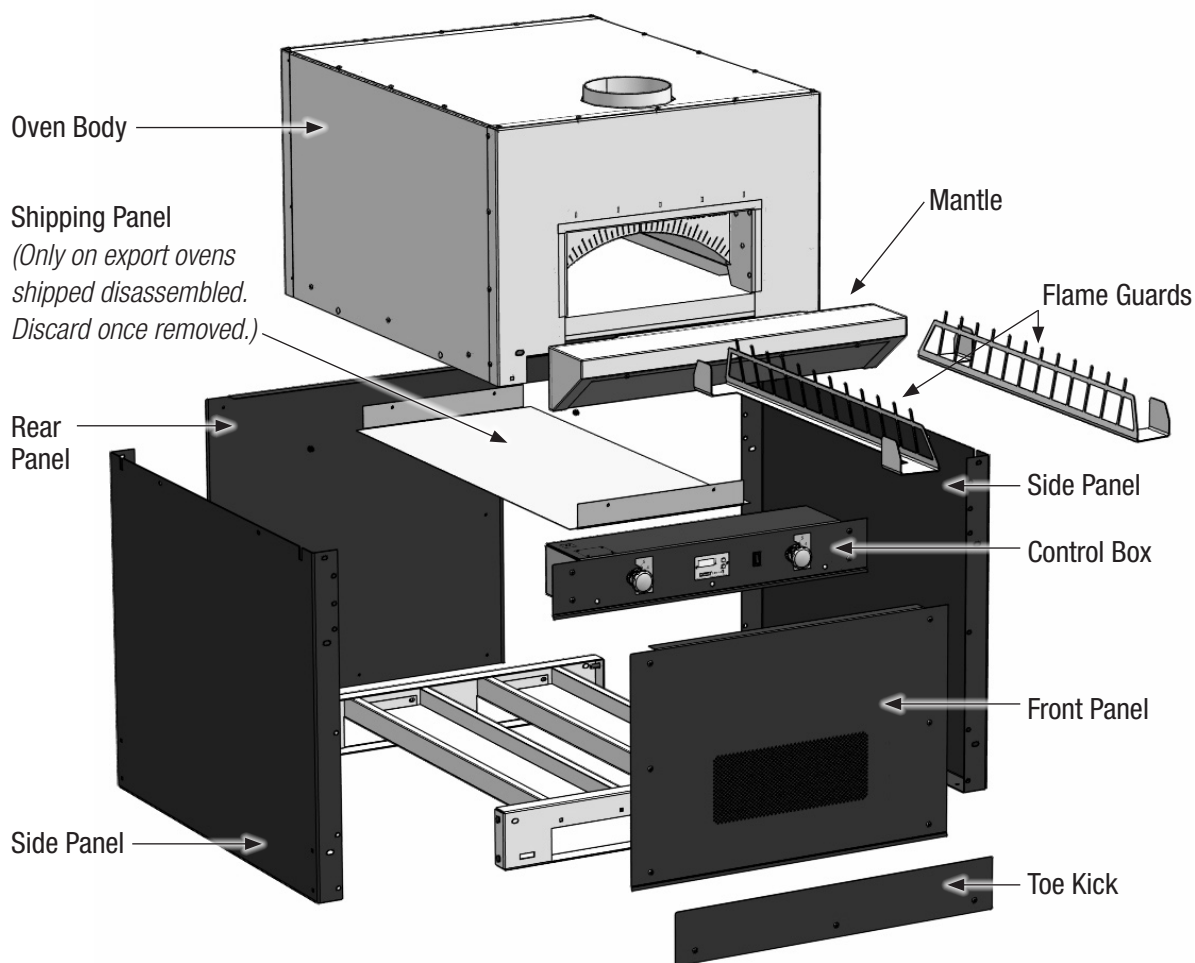
12. Run straps through forklift pockets and up to a Spreader Bar.
Note: The Spreader Bar must be wide enough so the straps clear the body of the oven. Lift the oven straight up and remove the 4x4" blocks.



13. Maneuver oven stand into position under the oven using pallet jack. Lower oven and secure oven to stand with bolts.



With the exception of the temporary Shipping Panel, all parts shown below, including the Rear Panel, **MUST** be installed to ensure the safe and proper operation of the oven.





Follow these instructions only if the oven was shipped disassembled, or disassembled to move through a narrow door or passageway.

The oven must be installed on a flat level surface. The weight of the oven is carried by the full perimeter of the oven stand. If it is necessary to shim the oven for leveling purposes, it is critical that the shim material be metal, and that the shims are installed in such a way that the full perimeter of the stand is solidly supported. Any gaps created by shimming between the oven and the floor must be sealed for proper ventilation. **Failure to solidly support the full perimeter of the oven stand can result in costly damage to the oven and will void the warranty.**

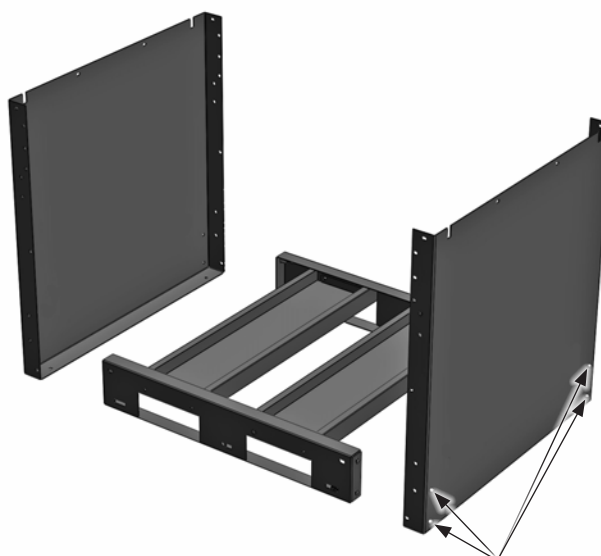
The floor design and construction must be adequate to handle the weight of the oven.

Please see woodstone-corp.com/installation_footprints.htm for floor loading information.

1. Lay out pieces.



2. Use the 9.5 mm x 25 mm (3/8" x 1") carriage bolts to assemble the stand. Be sure to use the washers provided and to tighten nuts and bolts securely.



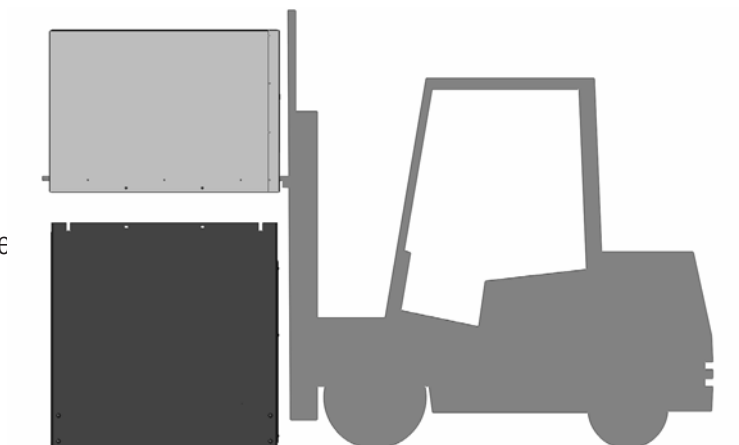
On 3030 models only

Use 3/8 x 3/4" (9.5 x 19 mm) long carriage bolts instead of the 9.5 x 25 mm (3/8 x 1") long carriage bolts.

Carriage bolts
9.5 x 25mm (3/8 x 1")
3030 only: 9.5 x 19mm (3/8 x 3/4")

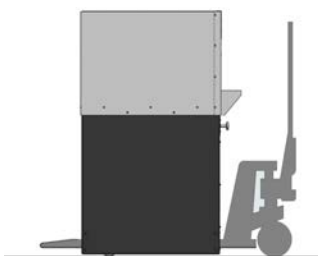


3. Using a forklift or other suitable lifting device, carefully lower the body of the oven on to the stand so that the bolt holes line up. While supporting the oven with the lift, install the 10 mm x 25 mm (3/8" x 1") carriage bolts. Use the washers provided and tighten all nuts securely. Be sure to use the forklift pockets when lifting the body of the oven.

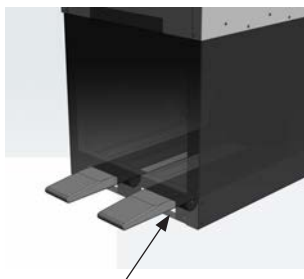


4. After the oven body is bolted to the stand, the oven can be moved into place with a pallet jack using the LOWER forklift pockets. If the oven is to be installed against a wall, leave access to the back of the oven until the assembly is completed.

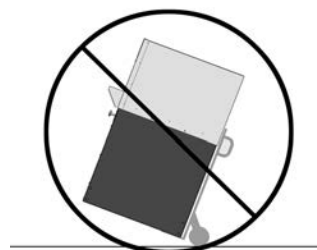
CAUTION: The 3030 model Phoenix weighs approximately 445 kg. The 4343 model Phoenix weighs approximately 930 kg. The 4355 model Phoenix weighs approximately 1134 kg. The oven is very top-heavy. **If the oven tips, it can cause severe injury or death!** The oven should only be moved in this manner (pallet jack) on a **LEVEL FLOOR**. Do not attempt to move the oven with a hand truck. If the oven must be moved over an inclined surface, a forklift or other suitable means should be employed. If the installer does not have the equipment or experience required to move the oven safely, we recommend you secure the services of a qualified rigging company.



The oven should only be moved using a pallet jack on a **LEVEL FLOOR**. If the oven must be moved over an inclined surface, a forklift or other suitable means should be employed.



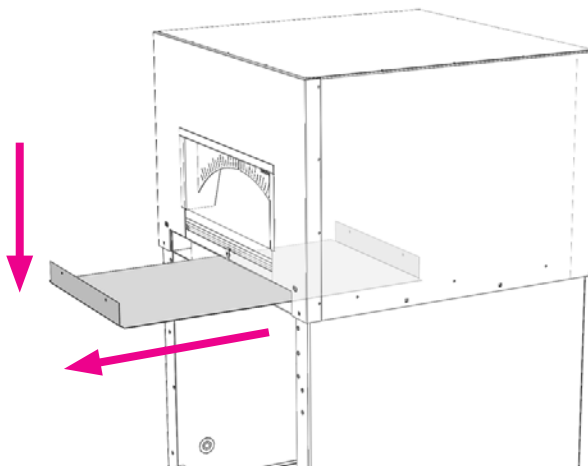
Make sure the pallet jack wheels do not contact the underside of the fork pocket when lifting to avoid damaging the stand.



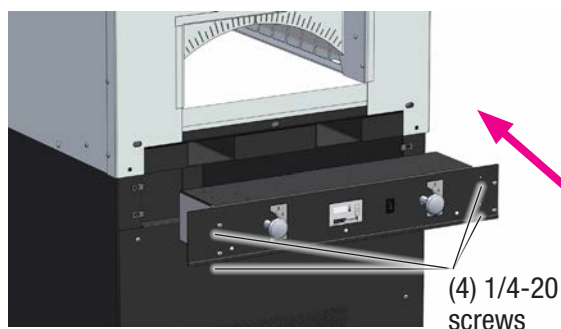
Never attempt to use a hand truck to move the oven.



5. Remove the shipping panel from beneath the oven. The shipping panel is secured with 2 screws in the front, and 2 screws in the back. Discard the shipping panel.



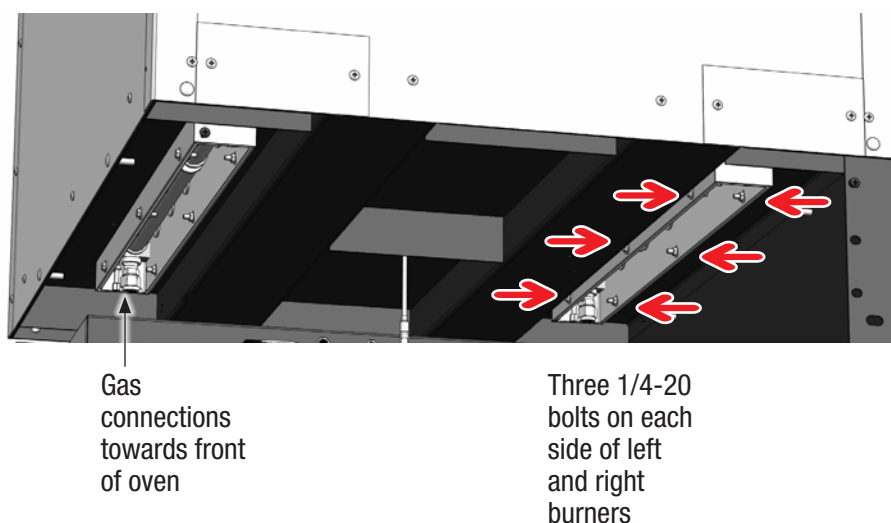
6. Attach the Control Box to the oven using (4) 1/4-20 screws. The Control Box should be oriented so the Flame Height Control Knob is on the left side.



7. Install burner assembly or assemblies for dual burner models.

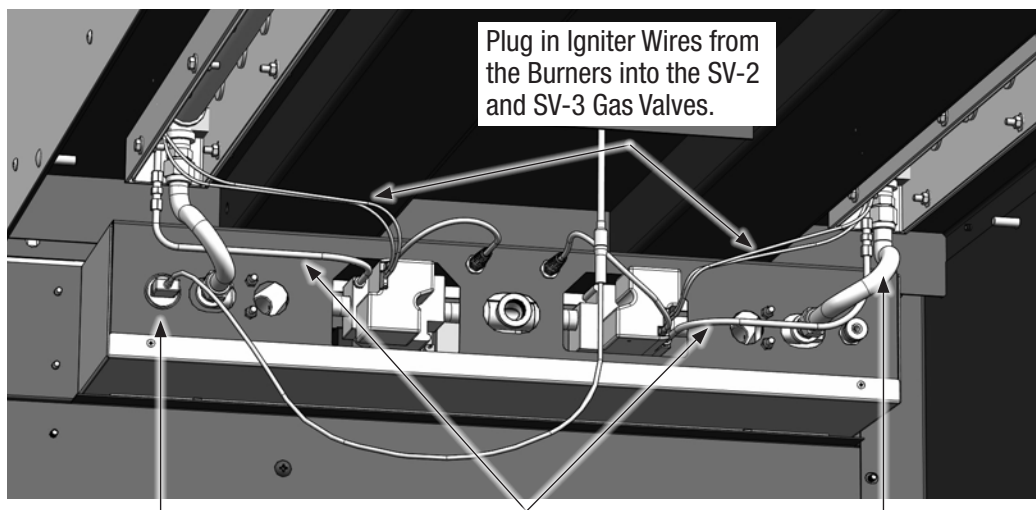
- A. Position burner as shown. **Note:** Gas connections will be towards front of oven.

- B. Raise burner(s) up into burner slot(s). Secure with the 1/4-20 bolts provided. Tighten nuts securely.





8. Connect Burner Assembly components and Thermocouple at the rear of the Control Box.



Plug in Igniter Wires from the Burners into the SV-2 and SV-3 Gas Valves.

Plug in Thermocouple Wire here.

Attach flexible Pilot Tubes between the SV-2 & SV-3 Gas Valves and left & right Burners. Tighten the fitting firmly.

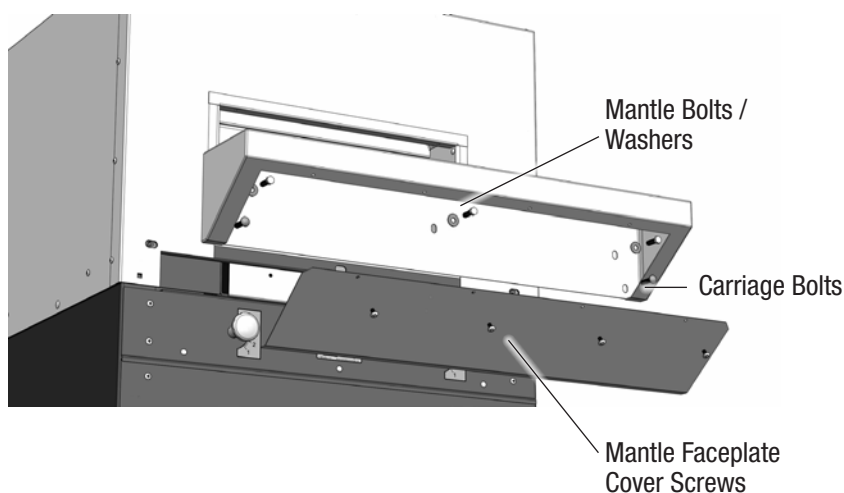
Use Flexible Gas Pipe provided to connect the Burner, left and right.

NOTE: Once oven is assembled and installed, be sure to leak-check all gas connections.

9. Install the Mantle. Fasten using 3 bolts / washers and 2 carriage bolts (see illustration).

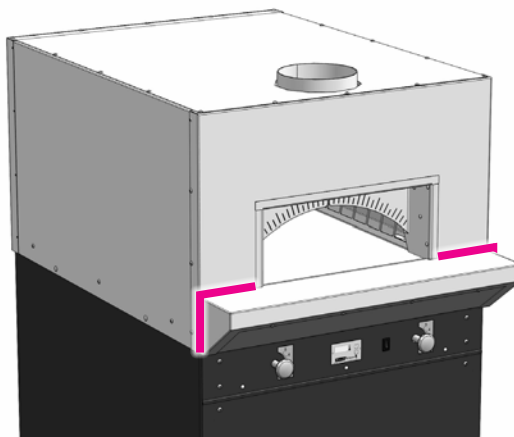
If the oven has been supplied with a granite mantle, affix the granite slab to the mounting bracket using a generous amount of the adhesive provided.

10. Place the Mantle Faceplate Cover over the open area under the top of the Mantle. Install the cover plate using the 4 screws provided.



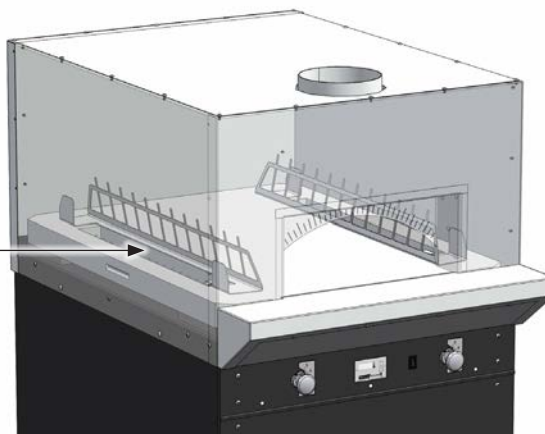


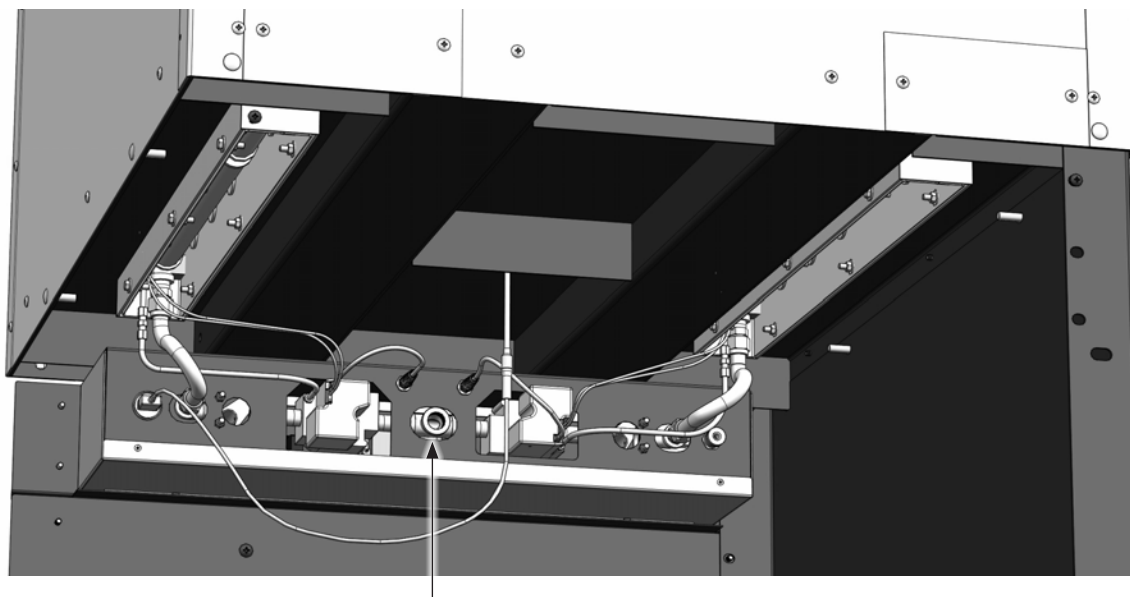
- 11.** Run a bead of high temperature silicone (provided) along visible joints where the mantle and the oven intersect—in the front and down both sides of the oven (right side not shown).



- 10.** Reinstall the Burner Guards. The lower tab of the guard fits into the front of the burner opening.

Lower tab of Burner Guard fits into the front of the burner opening





Connect the incoming
gas supply to the
3/4-inch FNPT gas inlet.

For non-plug models, make the electrical connection
to the terminals in Junction Box. Correct voltage is
specified on the Junction Box and the Equipment
Data Plate.

11. Make gas connection at the rear of the Control Box. Gas and electrical connections must comply with all relevant national and local codes, and in a manner acceptable to the authority having jurisdiction.

Knockouts are provided on the rear of the oven stand for the incoming gas and electrical supplies. If necessary, holes may be drilled in a side panel for the incoming gas and electrical. Gas and electrical supplies should be routed in such a way that they do not interfere with the removal of the oven burner, or block the access to the space under the oven for service. The area beneath the burner needs to be kept clear of conduit and piping to allow for removal of the burner for service. **The rear panel must be installed!** A 3/4-inch full-flow gas shut-off valve should be installed on the gas supply near the oven in such a way that it is readily accessible.

This appliance must be electrically grounded in accordance with local code, or in the absence of local code, with the national electrical code, ANSI/NFPA 70, or the Canadian Electrical Code, CSA C22.2, as applicable.

An electrical diagram is provided inside the bottom cover of the Control Box, and at the end of this manual.



The installation must conform with local codes, or in the absence of local codes with the National Fuel Gas Code, ANSI 223.1 or Natural Gas Installation Code, CAN/CGA-B149.1, as applicable, including:

1. The appliance and its individual shutoff valve (supplied by others) must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 34.4 mbar (1/2 psi).
2. The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve (supplied by others) during any pressure testing of the gas supply system at test pressures equal to or less than 34.4 mbar (1/2 psi).

The incoming gas supply pressure must not exceed 34.4 mbar (1/2 psi). If the incoming gas pressure exceeds 34.4 mbar (1/2 psi) an external gas regulator must be installed in the supply line. If the supply pressure is less than 34.4 mbar (1/2 psi), no external regulator is required.

The installer should bleed any air out of the gas line supplying the oven. All gas connections and fittings on the oven should be leak checked with an approved soap solution.

CHECKING THE BURNER MANIFOLD PRESSURES

The burner manifold pressures have been set at the factory. However, they should be checked by the installer. The pressures should be checked at the outlet tap on each Honeywell gas valve, located on the back of the control box. Once the manometer is connected, turn the oven on and use the knob on the oven to adjust the flame to its maximum height. Then check the manifold pressure.

4343-RFG-LR, 4355-RFG-LR models

Natural Gas (NG): 11.2 mbar (4.5" W.C.)

Propane (LG): 17.4 mbar (7" W.C.)

This information can also be found on the data plate located beneath the oven.

FRONT AND REAR PANEL INSTALLATION

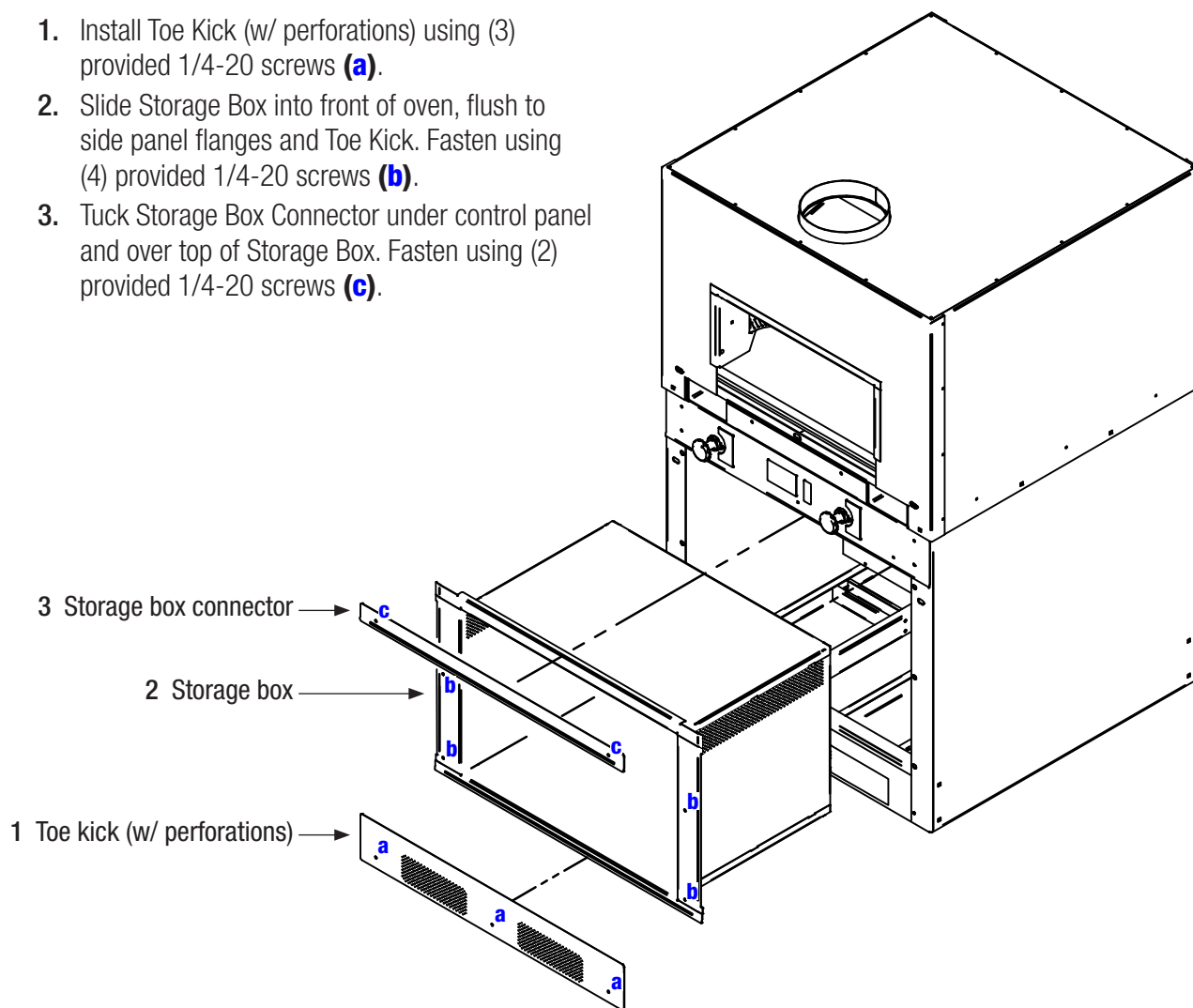
Install the rear panel, front panel, and toe kick using the 1/4-20 screws provided. The front panel on the oven must not be covered, so as to allow access for service to the oven components. The oven should be bolted to the floor using the holes provided at the base of the stand.

NOTE: Rear panel must be installed for the proper functioning of the oven.



INSTALLATION OF OPTIONAL STORAGE BOX

1. Install Toe Kick (w/ perforations) using (3) provided 1/4-20 screws **(a)**.
2. Slide Storage Box into front of oven, flush to side panel flanges and Toe Kick. Fasten using (4) provided 1/4-20 screws **(b)**.
3. Tuck Storage Box Connector under control panel and over top of Storage Box. Fasten using (2) provided 1/4-20 screws **(c)**.





CONTROLLER FUNCTIONS

Hearth Temperature

The hearth temperature will be displayed when the oven is turned on. Sensor is embedded 1" below hearth surface. Display will read "LO" when the temperature is below 38 °C (100 °F.)

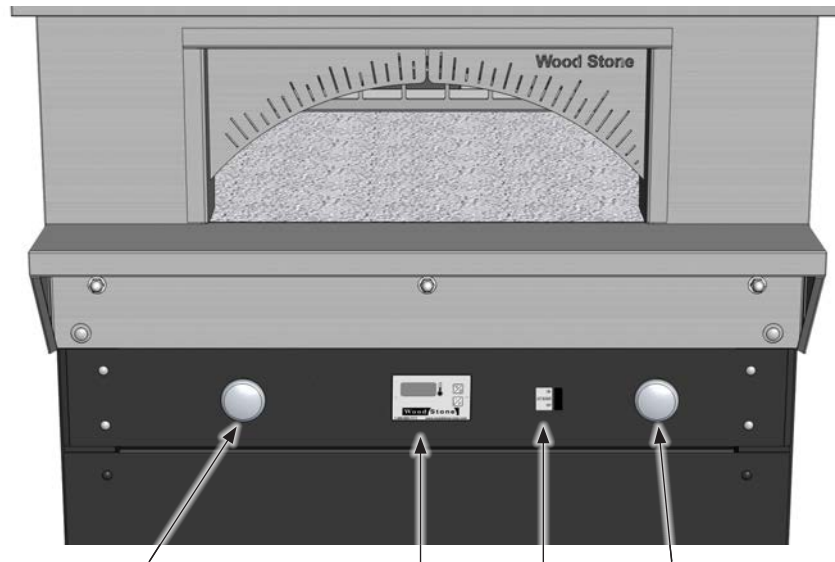


Temperature units

Press and hold to switch between Fahrenheit and Celsius.

ON/OFF button

Press to turn display on and off.



Flame Height Control Knob (left)

Use these knobs to raise/lower the flame to control the oven temperature. Dual burner models have (2) knobs which are linked together (see Burner Disable Switch at right).

Controller

Flame Height Control Knob (right)

Burner Disable Switch

Use this switch to disable one of the burners (specify which burner will be disabled at time of order).



INITIAL OVEN START-UP

IMPORTANT: If at any time you feel that either or both of the burners are not operating properly, turn the oven off and call for service. Before servicing, disconnect the electrical supply at the breaker and turn off the gas supply at the appliance's individual gas shutoff valve. In the event of a power failure, no attempt should be made to operate the oven. Your oven was cured at the factory. However in the course of shipment, storage on site, etc. the ceramic materials will have absorbed moisture. It is critical that the Initial Oven Start-up procedure below be followed to ensure that this moisture is driven from the ceramic in a controlled fashion. This will minimize cracking and prevent damage to the oven that could otherwise occur by bringing the oven to temperature rapidly the first time it is used.

Occasionally, through the course of the initial start-up, as the oven heats up it is possible that you will see some water dripping from the sides of the oven as moisture is driven out of the ceramic. This is not a defect in the oven, and once the oven has been fully saturated with heat, the moisture will be driven fully from the oven.

This Initial Oven Start-up procedure need only be followed the first time the oven is fired and/or if the oven has not been used for an extended period of time.

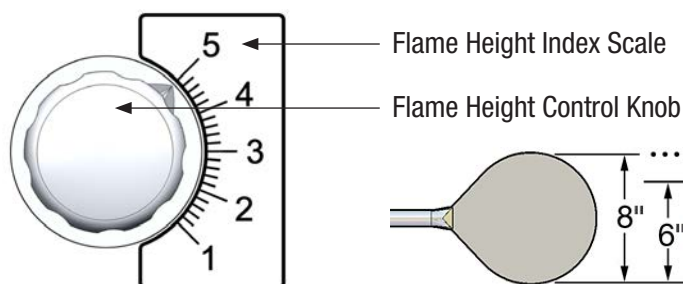
FIRST DAY

1. Make sure exhaust fan is properly wired and interlocked to the appliance.
2. Make sure main gas supply is ON (valve parallel with gas line).
3. Push I/O button on controller. The exhaust fan should come on as well. It may take a while for the gas to purge all the air from the gas lines. (Verify both burners light. If only one is lite, check that the Burner Disable switch on the front panel is in the ON position.
4. Once the burner(s) ignite(s), make sure the flame is at its lowest setting and allow the appliance to operate at this setting for about 1 hour.
5. After 1 hour, using the Flame Height Control Knob, raise radiant flame to "2" on the Flame Height Index Scale.
6. After 4 hours a raise to "3" on the Flame Height Index Scale and allow the appliance to run until it reaches a temperature of 260 °C (500 °F). This will take approximately 3–4 hours.

NOTE: Small "crazing" cracks will occur with normal heating and cooling. They will not affect the performance or durability of the oven. If cracks of 3 mm (1/8") wide or more develop, contact Wood Stone for evaluation.

FLAME HEIGHT INDICATOR

Comprised of two parts



For more information regarding Flame Height Control, go to the Resource Center section of our web site at:

www.woodstone-corp.com



IMPORTANT NOTE ON DUAL BURNER MODELS

The (2) flame height control knobs are linked together for ease of use. Turning either knob will raise or lower both flames. If you wish to unlink the knobs for individual control of each burner, please contact the factory for instructions.

DAILY OVEN OPERATION

The oven floor temperature is displayed on the controller readout.

END OF THE DAY

Push I/O button on the controller. All gas will go off, even the pilots. When the oven is turned off, use the Night Heat Retention Door to help retain heat in the oven. The night door is placed into the oven doorway.

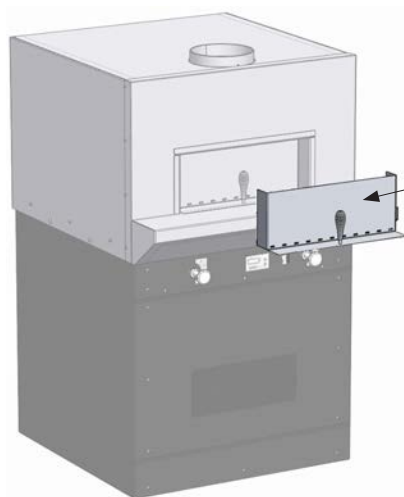
BEGINNING OF THE DAY

Make sure the night door is removed. Push I/O button and turn the radiant flame to its highest setting using the Flame Height Control Knob. The oven should reach the desired cooking temperature typically within 2 hours. Use the Flame Height Control Knob to control the amount of heat in the oven.

See woodstone-corp.com for detailed information on cooking in your Wood Stone oven.

OVEN INTERIOR

Wood Stone recommends the use of long-handled brushes for sweeping up surface debris that will accumulate on the floor of the oven during use. Use a natural fiber brush—always brushing away from the radiant burner well. For deeper cleaning, use a brass bristled brush. The oven floor can be then cleaned with a damp rag wrapped around the brass bristled brush head. (Wood Stone offers an assortment of oven brushes available through your dealer. Specification sheets may be viewed on the Wood Stone website under Tools & Accessories.)



Night Heat Retention Door

NOTE: Never operate this appliance with the (optional) stainless steel Night Heat Retention Door in place. This option is for heat retention only, and should only be used when the appliance is turned off.



DO NOT POUR OR SPRAY LIQUIDS ONTO THE OVEN DECK OR INTO THE OVEN INTERIOR AS THIS CAN DAMAGE THE CERAMIC AND WILL VOID THE WARRANTY.

There is a stainless steel burner guard to prevent food from falling on and thereby obstructing the gas orifices of the radiant flame. If food gets into the radiant flame well and the flame is visibly obstructed, turn the oven off immediately, and call for service.

DO NOT USE THE RADIANT BURNER WELL AS A DUMP FOR DEBRIS OR TRASH INCINERATION; MAKE EVERY ATTEMPT TO KEEP DEBRIS FROM DROPPING INTO THE WELL.

OVEN EXTERIOR

All painted and stainless steel surfaces should be cleaned as necessary using a mild detergent, hot water and a soft cloth or sponge. Stubborn residues may be removed using a nonmetallic scouring pad. When scouring stainless steel surfaces, scrub with the grain of the metal to prevent scratching.

GAS-FIRED OVEN THERMAL CLEANING

If a Wood Stone gas-fired oven is operated at low temperatures below 274 °C (525 °F), you may notice a buildup on the oven floor. If you operate the oven below 232 °C (450 °F), you may also notice some buildup on the interior walls and/or ceiling of the oven. To remove any buildup that has accumulated inside of the oven, simply turn the radiant flame to its highest setting. Monitor the hearth floor temperature displayed on the controller. When the floor reaches 343 °C (650 °F), lower the flame slightly so as to maintain the oven floor temperature near 343 °C (650 °F) for about an hour. Heavy accumulations may require more time. Heavy accumulations on the floor may require some additional scraping with a utility peel or a floor scraping tool. Once the oven appears clean, allow the oven to return to normal operating temperatures and continue normal operation.

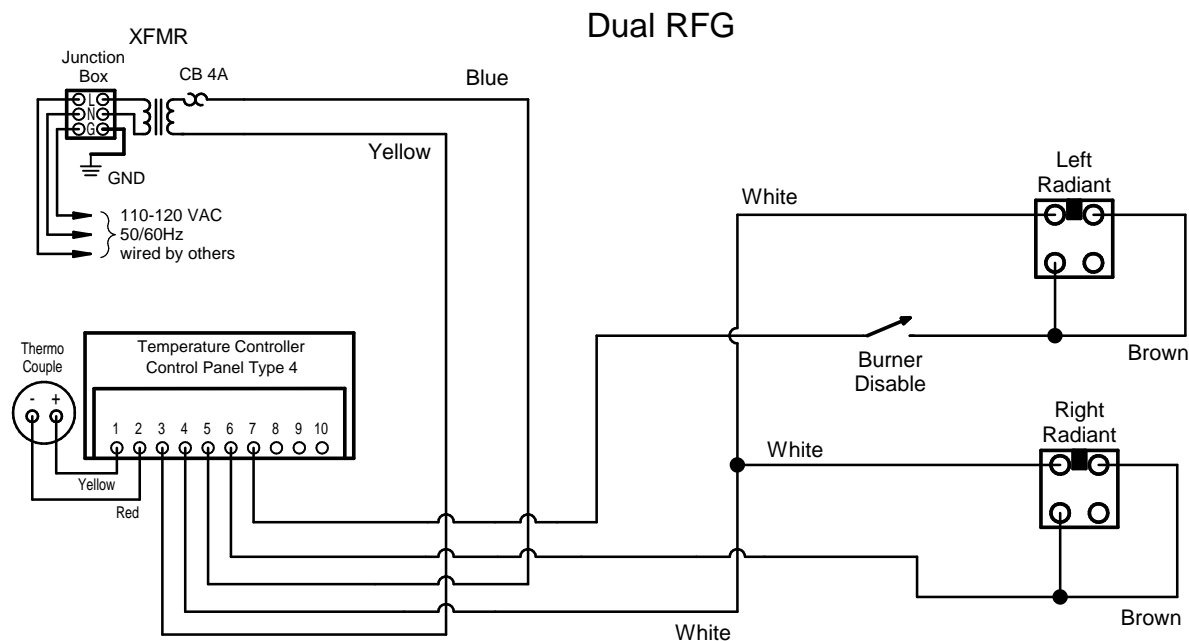
Never use any type of chemical cleaner on the oven ceramic. This will damage the oven and void the warranty.



PROBLEM	CAUSE/SOLUTION
Controller will not turn on	<ol style="list-style-type: none"> 1. Incoming power to oven turned off. Check circuit breaker for circuit supplying the oven. Check that any wall switches external to the oven that control oven power are turned on. Check that any interlocks external to the oven are turned on. 2. If controller still does not turn on, please contact Wood Stone for assistance.
Flame does not light	<ol style="list-style-type: none"> 1. Check gas is turned on to the oven, and gas shut-off valve is turned all the way on. 2. Debris in burner. Burner may require cleaning. Contact your distributor for assistance. 3. Damaged igniter or gas valve. Contact your dealer for assistance. <p>If the oven is being started for the first time:</p> <ul style="list-style-type: none"> - Has all air been bled from the gas line? - Is the switch on the SV-2 and SV-3 valve in the ON position? <p>NOTE: Valves are located on the back of the control box, beneath the oven.</p>
Flame cuts out	<ol style="list-style-type: none"> 1. Debris in burner. 2. Oven is being run with the night door in place. Night Heat Retention Door must be removed whenever the oven is turned on. 3. Wind blowing into the oven, or other venting issues.
Display reads "OPEN"	<ol style="list-style-type: none"> 1. Thermocouple is not plugged into control box. 2. Damaged thermocouple. Contact your distributor for assistance.



DUAL BURNER PX-4343 AND PX-4355 120 VAC ELECTRICAL DIAGRAM



WoodStone

Bellingham, WA +1(360)650-1111 www.woodstone-corp.com

DIAG #: WD075 Rev. 1

DATE: 11/12/2014

WoodStone

An ongoing program of product improvement may require us to change specifications without notice. **WS-PX-4343-LR, WS-PX-4355-LR,**
Revised April 2015 Doc no: M0030.02

wood stone corporation

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bellingham, wa 98226 usa

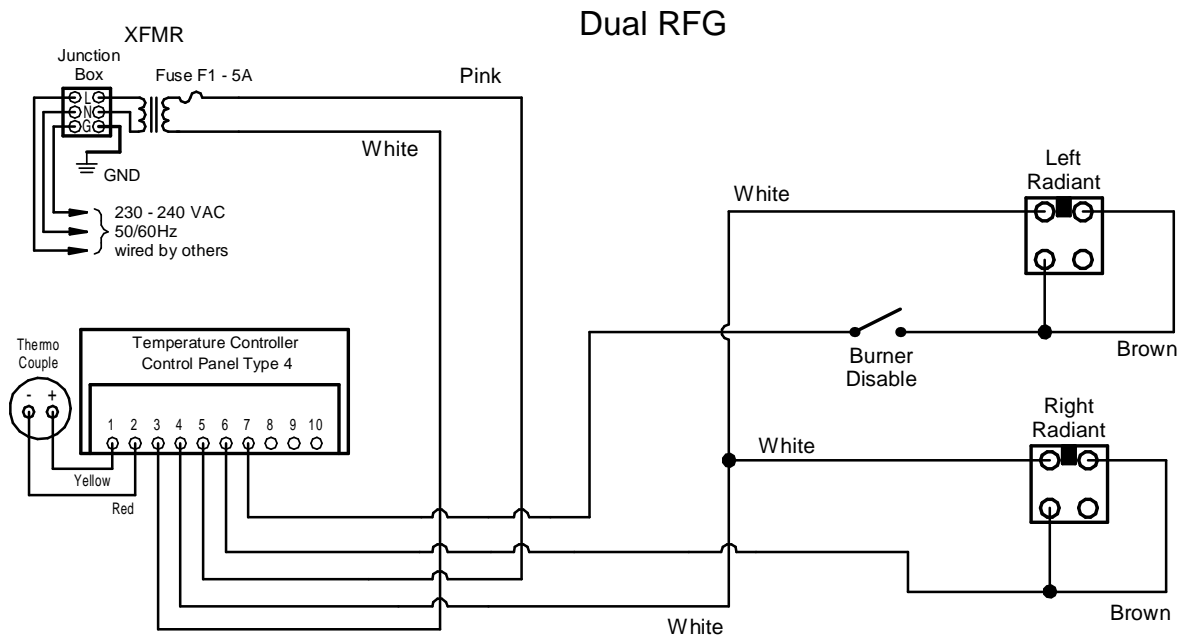
info@woodstone-corp.com or visit [woodstone-corp.com](http://www.woodstone-corp.com)

t. +1.360.650.1111

f. +1.360.650.1166



DUAL BURNER PX-4343 AND PX-4355 (CS-REC-11) 240 VAC ELECTRICAL DIAGRAM



Wood Stone

Bellingham, WA +1(360)650-1111 www.woodstone-corp.com

DIAG #: WD078 Rev. 0

DATE: 7/17/2014

Wood Stone

An ongoing program of product improvement may require us to change specifications without notice. **WS-PX-4343-LR, WS-PX-4355-LR,**
Revised April 2015 . **Doc no: M0030.02**

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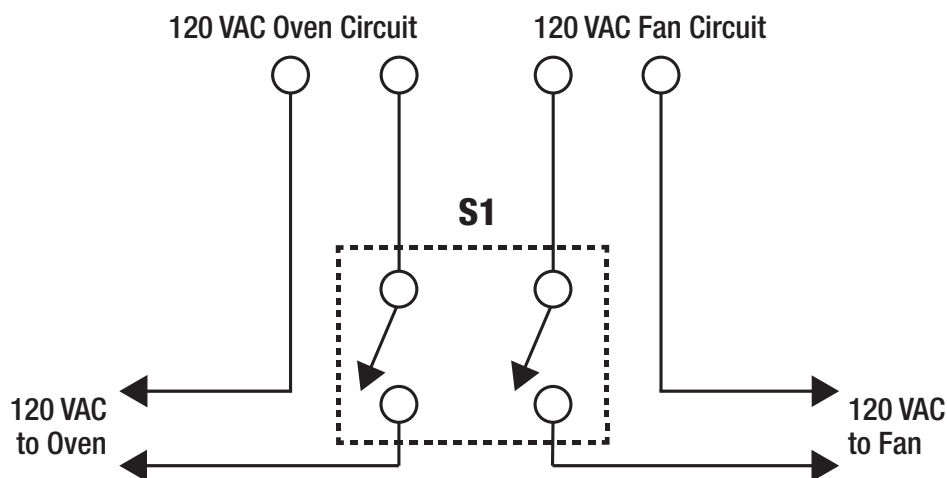
f. +1.360.650.1166



INTERLOCK OF OVEN CONTROL TO AN EXHAUST FAN

This connection is intended to interrupt power to the oven until the fan is turned on.

Wired by others



S1 is a Double Pole, Single Throw (DPST)
switch provided by others.

S1 is a double pole, single throw switch (provided by others) that interrupts in-coming power to both the oven and the fan. The intent is to prevent the operation of the oven's gas burner in the event the fan is shut off.

Any interruption of the power to the oven will cause the oven (including all burners and pilots) to shut off, and it will be necessary to restart the oven by pressing the start switch once power is restored.

For additional interlock options, see the Wood Stone Interlock Options supplement in the Manuals section on the website, woodstone-corp.com, or contact your distributor for additional information.



WOOD STONE WARRANTS ITS EQUIPMENT TO THE ORIGINAL PURCHASER AGAINST DEFECTS IN MATERIAL OR MANUFACTURE FOR A PERIOD OF ONE YEAR FROM THE ORIGINAL DATE OF PURCHASE, SUBJECT TO THE FOLLOWING EXCLUSIONS AND LIMITATIONS.

CONTACT YOUR LOCAL DISTRIBUTOR FOR WARRANTY SERVICE

EXCLUSIONS

The warranties provided by Wood Stone do not apply in the following instances:

1. In the event that the equipment is improperly installed. Proper installation is the responsibility of the installer; proper installation procedures are prescribed by the Wood Stone Installation and Operation Manual.
2. In the event the equipment is improperly or inadequately maintained. Proper maintenance is the responsibility of the user; proper maintenance procedures are prescribed in the Wood Stone Installation and Operation Manual. Burner problems resulting from debris or ash in the burner well will not be covered by the warranty. Call with questions regarding maintenance frequency.
3. In the event that the failure or malfunction of the appliance or any part thereof is caused by abnormal or improper use or is otherwise not attributable to defect in material or manufacture.
4. In the event that the appliance, by whatever cause, has been materially altered from the condition in which it left the factory.
5. In the event that the rating plate has been removed, altered or obliterated.
6. On parts that would be normally worn or replaced under normal conditions.
7. Normal cracking due to expansion and contraction stress relief in the ceramic firebox.
8. In wood-fired equipment configurations, in the event that pressed log products of any type have been burned in the equipment.
9. In coal-fired oven configurations, in the event any type of coal other than anthracite coal fuel has been used.
10. Damage resulting from the use of chemical cleaning products in the oven, as well as any damage from liquids or chemicals, including water, being poured or sprayed into the oven.

If any oral statements have been made regarding this appliance, such statements do not constitute warranties and are not part of the contract of sale. This Limited Warranty constitutes the complete, final and exclusive statement with regard to warranties.

THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES WHETHER WRITTEN, ORAL OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE OR WARRANTY AGAINST LATENT DEFECTS.

LIMITATIONS OF LIABILITY

In the event of warranty claim or otherwise, the sole obligation of Wood Stone shall be the repair and/or replacement, at the option of Wood Stone, of the appliance or component or part thereof. Such repair or replacement shall be at the expense of Wood Stone with the exception of travel over 100 miles or two hours, overtime, and holiday charges which shall be at the expense of the purchaser. Any repair or replacement under this warranty does not constitute an extension of the original warranty for any period of the appliance or for any component or part thereof. Parts to be replaced under this warranty will be repaired or replaced at the option of Wood Stone with new or functionally operative parts. The liability of Wood Stone on any claim of any kind, including claims based on warranty, expressed or implied, contract, negligence, strict liability or any other theories shall be solely and exclusively the repair or replacement of the product as stated herein, and such liability shall not include, and purchaser specifically renounces any rights to recover, special, incidental, consequential or other damages of any kind whatsoever, including, but not limited to, injuries to persons or damage to property, loss of profits or anticipated profits, or loss of use of the product.

TO SECURE WARRANTY SERVICE

If you claim a defect covered by this Limited Warranty, contact your local distributor.